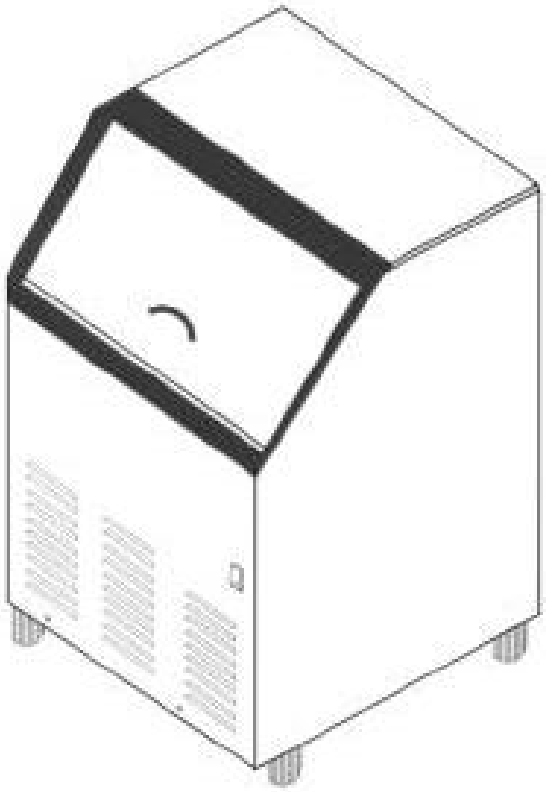
Automatic Ice Maker

Model: BIM70

User's Manual



Be sure unit is standing upright 24 hours prior to plug-in.

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We reserve the right to make changes in specifications and design without prior notice.

ICE MAKER SAFETY

Your safety and the safety of others are very important.

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.

This is the Safety Alert Symbol. This symbol alerts you to potential hazards that can injure or kill you and others. Safety messages will follow the Safety Alert Symbol and either the words "DANGER", "WARNING" OR "CAUTION".

⚠ DANGER ⚠

DANGER means that failure to heed this safety statement may result in severe personal injury or death.

⚠ WARNING

WARNING means that failure to heed this safety statement may result in extensive product damage, serious personal injury, or death.

CAUTION

CAUTION means that failure to heed this safety statement may result in minor or moderate personal injury, or property or equipment damage.

All safety messages will alert you to what the potential hazard is, tell you how to reduce the chance of injury, and let you know what can happen if the instructions are not followed.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: To reduce the risk of fire, electric shock or injury when using your ice maker, follow these basic precautions:

- *Plug into grounded 3-prong outlet*
- *Do not remove grounding prong*
- *Do not use an adapter*
- *Do not use an extension cord*
- *Disconnect power before cleaning*
- *Disconnect power before servicing*
- *Replace all panels before operating*
- *Use 2 or more people to move & install ice maker*

SAVE THESE INSTRUCTIONS

IMPORTANT SAFEGUARDS

Before the ice maker is used, it must be properly positioned and installed as described in this manual, so read the manual carefully. SUMMIT Appliance strongly recommends that you have a professional install your new machine. The warranty may be affected or voided by an improper installation. To reduce the risk of fire, electrical shock or injury when using the ice maker, follow basic precautions, including the following:

⚠ DANGER ⚠

- Plug into a grounded 3-prong outlet; do not remove grounding prong, do not use an adapter, and do not use an extension cord.
- It is recommended that a separate circuit, serving only your ice maker, be provided. Use receptacles that cannot be turned off by a switch or pull chain.
- Do not connect or disconnect the electric plug when your hands are wet.
- Never clean ice maker parts with flammable fluids. Their fumes can create a fire hazard or explosion. Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance. The fumes can create a fire hazard or explosion.
- Before proceeding with cleaning and maintenance operations, make sure the power line of the unit is disconnected and the water line is shut off. (EXCEPTION: When cleaning the machine's ice making system – see pages 22-23.)
- Before operating, put all panels back into place.
- Unplug the ice maker or disconnect power before cleaning or servicing. Failure to do so can result in electrical shock or death.
- Do not attempt to repair or replace any part of your ice maker unless it is specifically recommended in this manual. All other servicing should be referred to a qualified technician.

⚠ WARNING

- When you disassemble the front cover, do not use too much force, as the wire leads connected to the power switch can be inadvertently disconnected.
- Use two or more people to move and install the ice maker. Failure to do so can result in back or other injury.
- To ensure proper ventilation for your ice maker, the front of the unit must be completely unobstructed. Choose a well-ventilated area with temperatures above 55ºF (13ºC) and below 80ºF (27ºC). This unit MUST be installed in an area protected from the elements, such as wind, rain, water spray or drips.

- The ice maker should not be located next to ovens, grills or other sources of high heat.
- The ice maker must be installed with all electrical, water and drain connections in accordance with state and local codes. A standard electrical supply (115 VAC only, 60 Hz, 15 A), properly grounded in accordance with the National Electrical Code and local codes and ordinances is required.
- Do not kink or pinch the power supply cord or drain lines between the ice maker and the cabinet.
- The fuse (or circuit breaker) size should be 15 amperes.
- It is important for the ice maker to be leveled in order to work properly. You may need to make several adjustments to level it.
- All installations must be in accordance with local plumbing code requirements.
- Make certain that the hoses are not pinched or kinked or damaged during installation.
- Check for leaks after connection.
- Never allow children to operate, play with or crawl inside the ice maker.
- Although the unit has been tested at the factory, due to long-term transit and storage, the first batch of cubes must be discarded.
- Never turn the water supply tap off when the ice maker is working.
- If the ice maker will not be used for a long time, before the next use it must be thoroughly cleaned. Follow carefully any instructions provided for cleaning or use of sanitizing solution. Do not leave any solution inside the ice maker after cleaning.
- DO NOT touch the condenser fins. They are sharp and can be damaged easily.
- DO NOT use solvent-based cleaning agents or abrasives on the interior. These cleaners may transmit taste to the ice cubes, or damage or discolor the interior.
- The ice machine cleaner contains acids. DO NOT use or mix with any other solvent-based cleaner products. Use rubber gloves to protect hands. Carefully read the material safety instructions on the container of the ice machine cleaner.
- Do not use this apparatus for other than its intended purpose.

SAVE THESE INSTRUCTIONS

Electrical Connection

Do not, under any circumstances, cut or remove the third (ground) prong from the power cord. For personal safety, this appliance must be properly grounded. The power cord of this appliance is equipped with a 3-prong grounding plug that mates with a standard 3-prong grounding wall outlet to minimize the possibility of electric shock hazard from the appliance. Have the wall outlet and circuit checked by a qualified electrician to make sure the outlet is properly grounded. When a standard 2-prong wall outlet is encountered, it is your responsibility and obligation to have it replaced with a properly grounded 3-prong wall outlet. The ice maker should always be plugged into its own individual electrical outlet which has a voltage rating that matches the rating label on the appliance. This provides the best performance and also prevents overloading house wiring circuits which could cause a fire hazard from overheated wires. Never unplug your ice maker by pulling on the power cord. Always grip the plug firmly and pull straight out from the outlet. Repair or replace immediately all

power cords that have become frayed or otherwise damaged. Do not use a cord that shows cracks or abrasion damage along its length or at either end. When moving the ice maker, be careful not to damage the power cord.

Extension Cord

Because of potential safety hazards under certain conditions, it is strongly recommended that you do not use an extension cord with this ice maker.

TECHNICAL INFORMATION

Model:	BIM70
Electrical power:	115VAC ~ 60Hz
Power consumption:	12 kWh/100 lbs of ice
Ice-making /-harvest rated current:	6.7A/11.2A
Refrigerant:	R134a, 6.88 oz.
High/Low side pressure:	320 psig/120 psig
Width x depth x height:	16½" x 21⅝" x 32½"
Unit weight:	91 lbs
Maximum ice storage:	25 lbs
Ice-making capacity:	65lbs/day*
Ice shape:	Bullet
Ice cube dimensions:	1⅜" Diam. x 1⅛" H

The technical data and performance index listed above should be used for reference only. They are subject to change.

*****The actual quantity of ice produced per day can vary with room and water conditions.

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INTRODUCTION

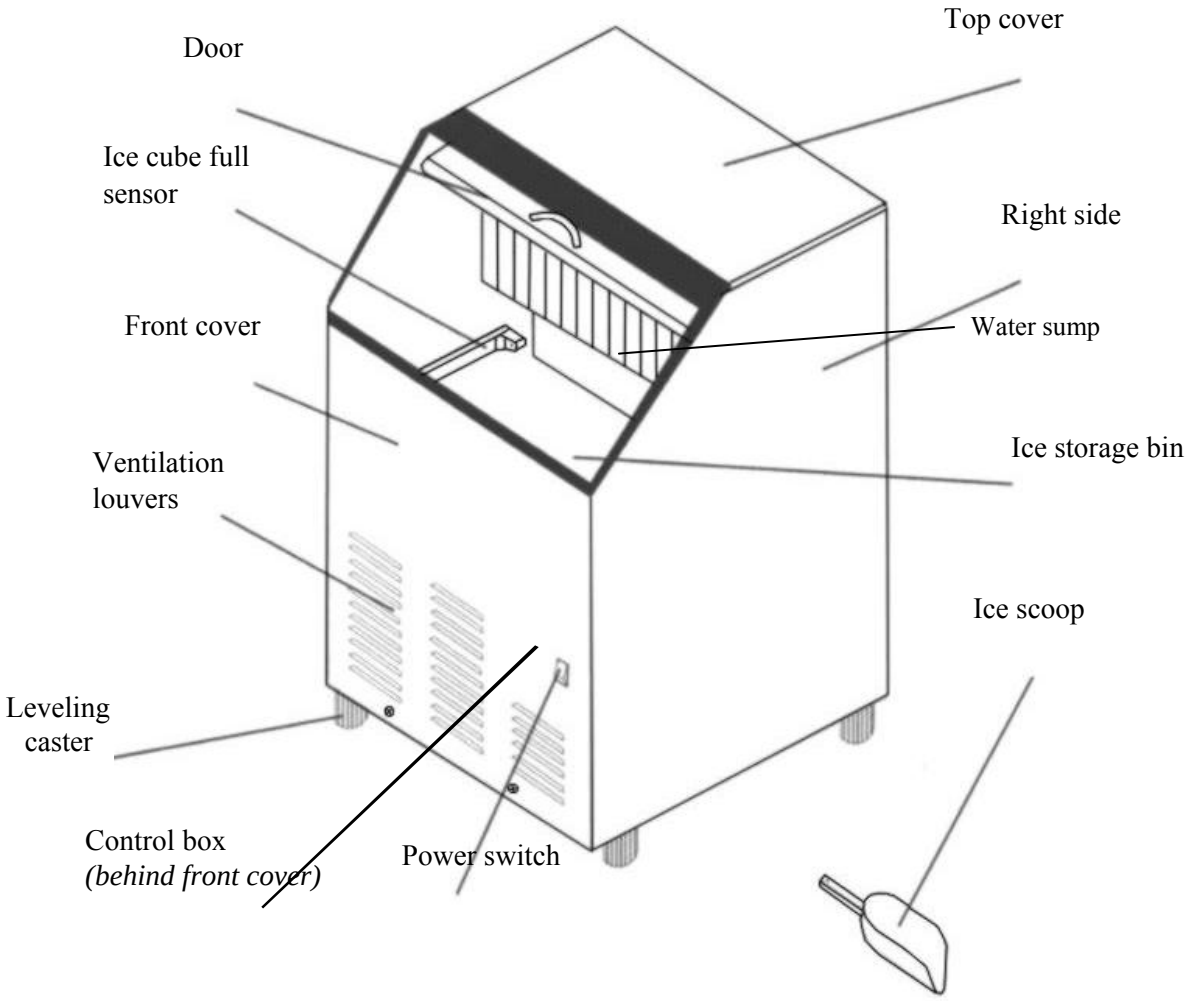
This SUMMIT Ice Maker finds wide application in households, bars, restaurants, hotels, supermarkets, etc. This unit produces crystal-clear, gourmet cube ice, and offers convenience for homeowners and hotel guests. An insulated ice storage bin is built into each ice maker.

This User's Manual is intended as a resource for persons installing, using and servicing model BIM70. It contains valuable information on safety and maintenance. SUMMIT Appliance strongly recommends that this manual be kept in a place where it can be accessed when needed.

Every SUMMIT Ice Maker is designed and manufactured according to the highest standards of safety and performance. It meets or exceeds the safety standard of UL563 and sanitation standard NSF12.

SUMMIT Appliance assumes no liability or responsibility of any kind for products manufactured by SUMMIT Appliance that have been altered in any way, including the use of any parts and/or other components not specifically approved by SUMMIT Appliance. SUMMIT Appliance reserves the right to make design changes and/or improvements at any time. Specifications and designs are subject to change without notice.

COMPONENT LOCATIONS



ICE MAKER INSTALLATION

Unpacking

⚠ WARNING

Excessive Weight Hazard

Use two or more people to move and install ice maker.
Failure to do so can result in back or other injury.

Remove packaging materials

IMPORTANT: Do not remove any permanent instruction labels or the rating label on your ice maker.
Remove tape and glue from your ice maker before using.

- To remove any remaining tape or glue, rub the area briskly with your thumb. Tape or glue residue can also be easily removed by rubbing a small amount of liquid dish soap over the adhesive with your fingers. Wipe with warm water and dry.
- Do not use sharp instruments, rubbing alcohol, flammable fluids, or abrasive cleaners to remove tape or glue. These products can damage the surface of your ice maker.

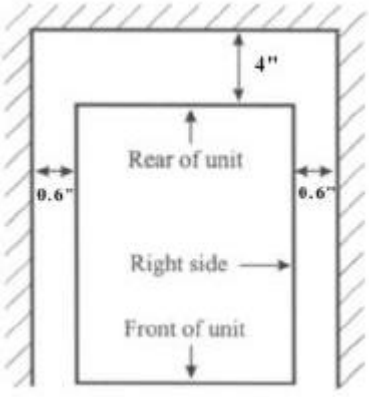
Cleaning before use

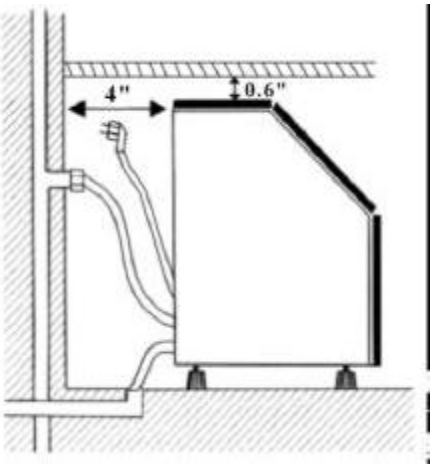
After you remove all of the packaging materials, clean the inside of your ice maker before using it. See "Interior Cleaning" in the *Cleaning and Maintenance* section.

Location Requirements

INSTALLATION CLEARANCES:

TOP VIEW





SIDE VIEW

- To ensure proper ventilation for your ice maker, the front of the unit must be completely unobstructed. Allow at least 101 mm (4") clearance at rear, and 15 mm (0.6") at top and sides for proper air circulation. The installation should allow the ice maker to be pulled forward for servicing if necessary.
- When installing the ice maker under a counter, follow the recommended spacing dimensions shown. Place electrical and water supplies and drain fixtures in the recommended locations as shown.
- Choose a well-ventilated area with temperatures above 55ºF (13ºC) and below 80ºF (27ºC). This unit MUST be installed in an area protected from the elements, such as wind, rain, water spray or drips.
- The unit should not be located next to ovens, grills or other sources of high heat.
- Installation of the ice maker requires a cold water supply inlet of 6.35 mm (1/4 in.) soft copper tubing with a shut-off valve and a gravity-drain system.
  (NOTE: Run-off water can also be drained into a sink via a pump – not included – when a gravity drain is not available.)
- The ice maker requires a continuous water supply with a minimum pressure of 20psig and a static pressure not to exceed 80psig. The temperature of the water feeding into the ice maker should be between 41ºF (5ºC) and 77ºF (25ºC) for proper operation.

⚠ WARNING

Normal operating ambient temperature should be between 55ºF (13ºC) to 80ºF (27ºC). Normal operating water temperature should be between 41ºF (5ºC) and 77ºF (25ºC). Operation of the ice maker for extended periods outside of these normal temperature ranges may affect production capacity.

- In general, it is always a good idea to filter the water. A water filter, if it is of the proper type, can remove taste and odors as well as particles. Where water is very hard, softened water may result in white, mushy cubes that stick together. Deionized water is not recommended.
- The ice maker must be installed with all electrical, water and drain connections in accordance with state and local codes.
- The unit should be located on a firm and level surface. It is important for the ice maker to be leveled in order to work properly. If needed, you can adjust the height of the ice maker by revolving the feet. See the *Leveling the Ice Maker* section.

Electrical Requirements

⚠ DANGER ⚠

Electrical Shock Hazard

Plug into a grounded 3-prong outlet.
Never remove the grounding prong from the plug.
Never use an adapter.
Never use an extension cord.
Failure to follow these instructions can result in fire, electrical shock or death.

- IMPORTANT: Do not kink or pinch the power supply cord between the ice maker and wall or cabinet.
- Before you move your ice maker into its final location, it is important to make sure you have the proper electrical connection.
- A standard electrical supply (115 VAC only, 60 Hz, 15 A), properly grounded in accordance with the National Electrical Code and local codes and ordinances, is required.
- It is recommended that a separate circuit, serving only your ice maker, be provided. Use receptacles that cannot be turned off by a switch or pull chain.
- The fuse (or circuit breaker) size should be 15 amperes.

Recommended grounding method

For your personal safety, this appliance must be grounded. This appliance is equipped with a power supply cord having a 3-prong grounding plug. To minimize possible shock hazard, the cord must be plugged into a mating 3-pronged and grounding-type wall receptacle, grounded in accordance with the National Electrical Code and local codes and ordinances. If a mating wall receptacle is not available, it is the personal responsibility of the customer to have a properly grounded, 3-prong wall receptacle installed by a qualified electrician.

Leveling the Ice Maker

It is important for the ice maker to be leveled in order to work properly. It can be raised or lowered by rotating the plastic sheaths around each of the four rolling casters on the bottom of the machine. If you find that the surface is not level, rotate the casters until the ice maker becomes level. You may need to make several adjustments to level it. We recommend using a carpenter's level to check the machine.

You will find that the casters make it easy for one person to move the machine. This is useful for cleaning and sanitizing the surface on which the ice maker is installed because it allows you to move the unit and have easy access to the surface to be cleaned.

IMPORTANT: Once you are ready to install the ice maker in a cabinet or directly on the floor, you must adjust the feet to level the ice maker and lock the rollers. If the floor is level, just revolve the two front feet to touch the floor. (See illustration.)

Water Supply and Drain Connections

The water supply and drain should be ready at the point of installation. A wall outlet directly behind the ice maker will make installation easier.

IMPORTANT:

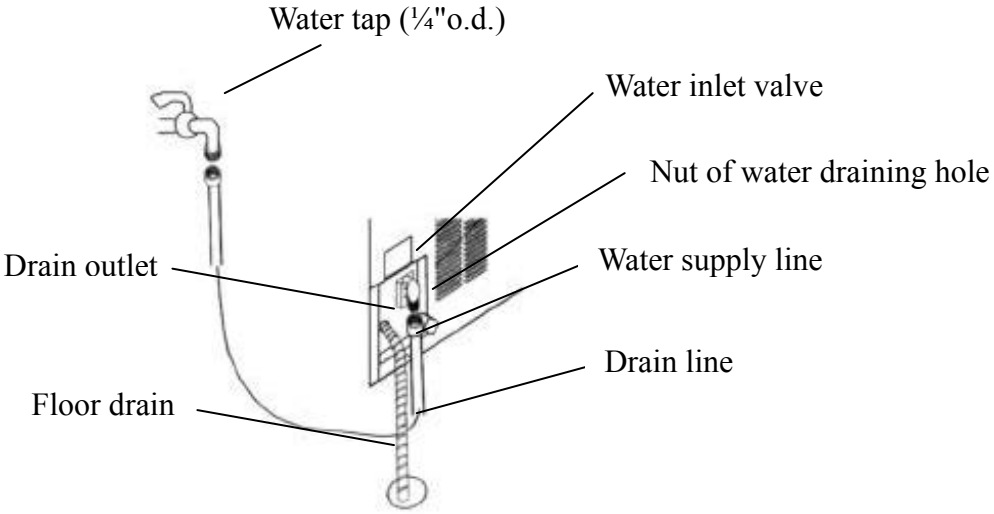
1. *All installations must be in accordance with local plumbing code requirements. Professional installation is recommended.*
2. *Make certain that the hoses are not pinched or kinked or damaged during installation.*
3. *Check for leaks after connection.*

Tools required:

- ½ inch open-end wrench
- Phillips screwdriver

Connecting the water line:

1. Turn off main water supply. Turn on nearest faucet long enough to clear the line of water.
2. Find a ½ in. to ¾ in. vertical cold water pipe near the installation location. The distance should be less than 9 feet. The water supply hose provided with the ice maker is about 9 feet.
3. A shut-off valve must be installed to the main water supply. If the water pipe has a plain piece of copper tubing, attach a ¼" O.D. compression union to the tubing and remove the nut.
4. Connect nuts of water supply hose to tap and water inlet valve. Tighten firmly by hand, then one-half turn with wrench.
5. Turn on main water supply and tap. Check for water supply connection leaks. Tighten any connections (including connections at the valve) or nuts that leak.



NOTE: Connection to the water line may vary according to installation requirements.

Drain Line:

IMPORTANT: <u>This ice maker is not a freezer. It must connect to a drain line</u>. Your machine comes equipped with a gravity drain. Depending on your plumbing setup, a condensation pump may be required. Poor drainage will cause a high rate of melting in the ice storage bin and may cause flooding or your machine to shut off.

Connecting the drain line:

NOTE: If there is a drain line near the ice maker or the ice maker will be used as an outdoor unit, the best choice is to drain water to the drain line through the drain hose provided with ice maker.

1. Locate the floor drain near the ice maker. The distance should be less than 5 feet since the length of the long drain hose provided with the ice maker is about 5 feet.
2. Find the drain outlet on the back of ice maker, then take off the rear drainage plug. Connect the nut of the drain outlet to the water draining hose, and insert the other side of the hose into the drain line.

NOTE: The drain hose should never be allowed to hang or loop higher than the bottom

of the ice storage bin.

3. All horizontal runs of drain lines must have a fall of ¼" per foot. An air gap will likely be required between the ice maker drain hose and the drain/waste receptacle. A stand pipe with a trap below it would be acceptable for the drain/waste receptacle. A floor drain is also acceptable.
4. Pour 1 gallon of water into the ice storage bin to check for leaks at all drain connections and at the nut of the drain water hole. Tighten any connections or nuts that leak.

Installation Types

This ice maker has been designed for Mobile (free-standing), Enclosed (as under a cabinet) or Built-in (sealed) installation, indoor or outdoor. In any case, there must be adequate air space around the unit for proper ventilation. (See diagrams on page 8.)

Mobile installation:

A mobile installation will allow you to install the ice maker free-standing in any place you desire provided you have access to a water supply. You must follow the stated instructions for

a. Electrical requirements
b. Water supply
c. Leveling the ice maker

Enclosed Installation:

An enclosed installation will allow you to install the ice maker under a cabinet or inside a kitchen cabinet provided the required clearance space around the ice maker is respected. This installation has the same requirements as a mobile installation.

Built-in Installation:

If this method of installation is chosen, it will still be necessary to allow adequate ventilation space around the unit. The following additional items must be observed.

1. Place ice maker in front of installation location. Remove the legs and place the unit flat on the floor or on a platform depending on your installation requirements.
2. The water supply line must be plumbed before connecting to the ice maker.
3. Connect the drain hose.
4. Turn on main water supply and tap. Check for water supply connection leaks. Tighten every connection (including connections at the water inlet).
5. If the electrical outlet for the ice maker is behind the cabinet, plug in the ice maker.
6. Push the ice maker into position.
7. Seal all around the cabinet to the floor with an approved caulking compound.

OPERATION

Final Check List before Operation

1. Have all packing materials and tape been removed from the interior and exterior of the ice maker?
2. Did you clean the ice storage bin?
3. Have the installation instructions been followed, including connecting the machine to water, drain and electricity?
4. Has the machine been leveled?
5. Is the ice maker in a site where the ambient temperature is between 13ºC (55ºF) and 27ºC (80ºF) and the water temperature within 5ºC (41ºF) and 25ºC (77ºF) all year round?
6. Has the water supply pressure been checked to ensure a minimum of 20psig with a static pressure not to exceed 80psig?
7. Is there a clearance of at least 4 in. (101 mm) at the rear, and 0.6 in. (15 mm) at the sides and top for proper air circulation?
8. Has the power supply voltage been checked or tested against the nameplate rating?
9. Has the machine been properly grounded and connected into a three-prong AC outlet?
10. Is the ice maker plugged in?
11. Did you turn on the main water supply and the tap?
12. Did you check for leaks at all water supply and drainpipe connections?
13. Has the machine been connected to a floor drain? If you do not have a floor drain, a condensation pump will be required.

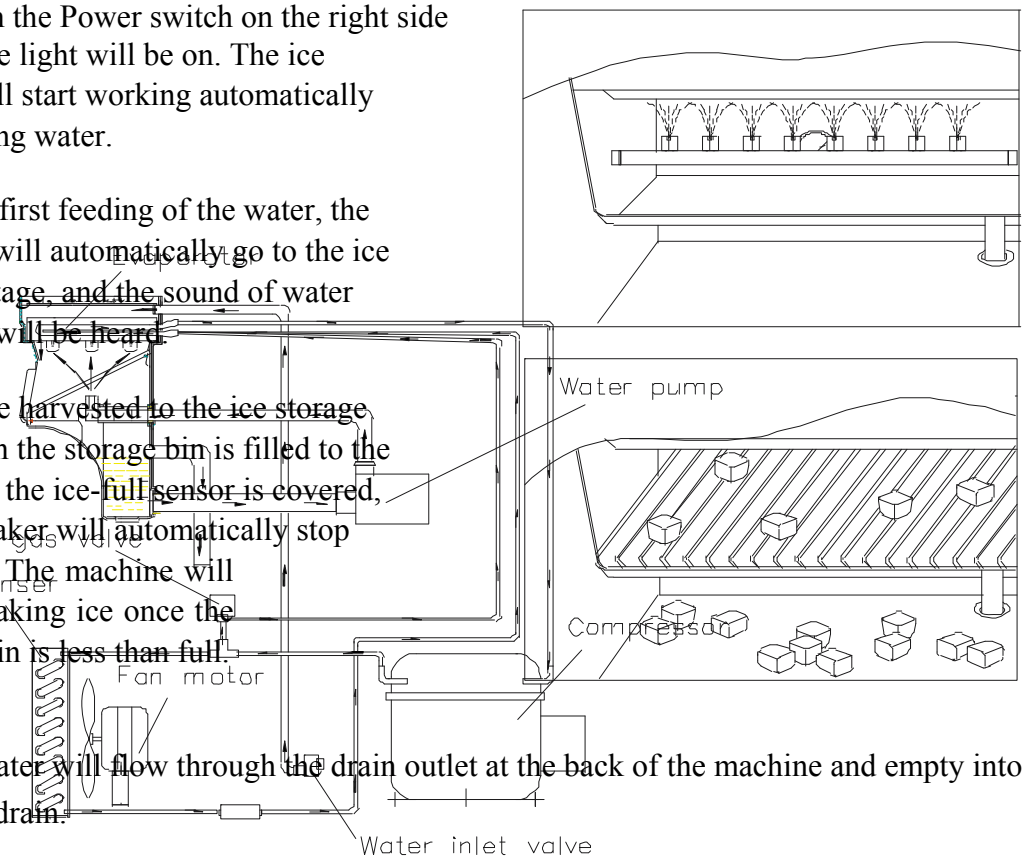
Operating Method

1. Switch on the Power switch on the right side panel. The light will be on. The ice maker will start working automatically and feeding water.

2. After the first feeding of the water, the machine will automatically go to the ice making stage, and the sound of water spraying will be heard.

3. Ice will be harvested to the ice storage bin. When the storage bin is filled to the point that the ice-full sensor is covered, the ice maker will automatically stop working. The machine will restart making ice once the storage bin is less than full.

4. Excess water will flow through the drain outlet at the back of the machine and empty into the floor drain.



IMPORTANT:

- *Although the unit has been tested at the factory, due to long-term transit and storage, the first batch of cubes must be discarded.*
- *Never turn the water supply tap off when the icemaker is working.*

How the Machine Makes Ice

There are two distinct cycles: freeze and harvest. During the freeze cycle, water is sprayed against the evaporator surface. In the harvest cycle, the ice is released and water enters the machine. A complete cycle takes about 20 minutes, but is dependent on temperature and operating conditions.

Freeze: During the freeze cycle the compressor is pumping refrigerant, the fan motor is blowing air, and the water pump is circulating water. When the batch of ice has been fully formed, the ice maker stops the freeze cycle and begins to harvest the ice.

Harvest: During the harvest cycle the compressor is still operating, but the water pump has stopped. Two other components have been energized: the hot gas valve and the water inlet valve. These two valves open and warm up the freezing surface, allowing the cubes to fall into the bin. The freeze cycle will restart when all the cubes have been harvested.

How the machine uses water:

The ice maker begins with a fixed charge of water that is contained in the water sump. As the water is sprayed against the freezing evaporator surface, the portion of water that does not contain mineral impurities will freeze and stick to the ice cube molds. The water containing impurities falls back into the water sump. Gradually, during the freezing portion of the ice-making cycle, the water in the sump will become highly concentrated with mineral impurities.

During the harvest cycle, fresh water flows into the machine to dilute the bin water and rinse the concentrated minerals down the drain.

Normal Sounds

Your new ice maker may make sounds that are not familiar to you. Most of the new sounds are normal. Hard surfaces like the floor and walls can make the sounds seem louder than they actually are. The following describes the kinds of sounds that might be new to you and what may be making them.

- You will hear a swooshing sound when the water valve opens to fill the water sump for each cycle.
- Rattling noises may come from the flow of the refrigerant or the water line. Items stored on top of the ice maker can also make noises.
- The high-efficiency compressor may make a pulsating or high-pitched sound.

- Water running from the water sump to the evaporator plate may make a splashing sound.
- Water running from the evaporator to the water sump may make a splashing sound.
- As each cycle ends, you may hear a gurgling sound due to the refrigerant flowing in your ice maker.
- You may hear air being forced over the condenser by the condenser fan.
- During the harvest cycle, you may hear the sound of ice cubes falling into the ice storage bin.
- When you first start the ice maker, you may hear water running continuously. The ice maker is programmed to run a rinse cycle before it begins to make ice.

Preparing the Ice Maker for Long Storage

If the ice maker will not be used for a long time, or is to be moved to another place, it will be necessary to drain the system of water.

- Shut off the water supply at the main water source.
- Disconnect the water supply line from the water inlet valve.
- Disconnect the drain pipe to the drain line or floor drain.
- Allow the ice maker to run for an hour or more until all remaining ice cubes have been ejected from the ice maker assembly.
- Shut off the electric supply at the main electrical power source.
- Screw off the nut of the water drain hole at the back of the machine, drain out water residue completely (do not loosen or screw off the nut at other times), then tighten the nut after finishing.
- Leave the door open to allow for circulation and prevent mold and mildew.
- Leave water supply line and power cord disconnected until ready to reuse.

CLEANING AND MAINTENANCE

CAUTION

If the ice mak[illegible]se it must be thoroughly cleaned. Follow carefully any instructions provided for cleaning or use of sanitizing solution.

Do not leave any solution inside the ice maker after cleaning.

Periodic cleaning and proper maintenance will ensure efficiency, top performance, and long life. The maintenance intervals listed are based on normal conditions. You may want to shorten the intervals if you have pets or the unit is used outdoors or there are other special considerations.

What shouldn't be done

Never keep anything in the ice storage bin that is not ice: objects like wine and beer bottles are not only unsanitary, but the labels may slip off and plug up the drain.

What should be kept clean

There are 4 things to keep clean:

1. The exterior
2. The condenser
3. The interior
4. The ice making system

⚠ WARNING

Before pr[illegible]ns, make sure the power line of the unit is disconnected and the water line is shut off (EXCEPTION: Ice maker system cleaning).

Exterior Cleaning

The door and cabinet may be cleaned with a mild detergent and warm water solution such as 1 oz of dishwashing liquid mixed with 2 gallons of warm water. Do not use solvent-based or abrasive cleaners. Use a soft sponge and rinse with clean water. Wipe with a soft clean towel to prevent water spotting.

Stainless steel can discolor when exposed to chlorine gas and should be cleaned. Clean stainless steel with a mild detergent and warm water solution and a damp cloth. Never use abrasive cleaning agents.

NOTICE: Stainless steel exposed to chlorine gas and moisture, such as in areas with spas or swimming pools, may show some discoloration. Discoloration from chlorine gas is normal.

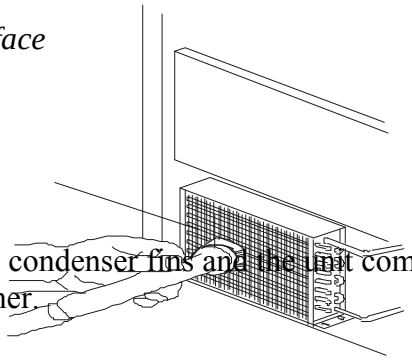
Condenser Cleaning

1. A dirty or clogged condenser prevents proper airflow, reduces ice making capacity, and causes higher than recommended operating temperatures that may lead to component failure. Have the condenser cleaned at least once every six months.
2. Unplug the ice maker or disconnect power.
3. Remove the 2 screws at the bottom of the front cover. Grasp the lower edge of the front cover at the right and left sides, raise it a little and then pull down.

   NOTE: Do not use too much force, as the wire leads connected to the power switch can be inadvertently disconnected.

4. Locate the condenser surface.

Condenser surface



5. Remove dirt and lint from the condenser fins and the unit compartment with a brush attachment on a vacuum cleaner.
6. Reassemble the front cover.
7. Plug in the ice maker or reconnect power.

WARNING

DO NOT touch condenser fins. They are sharp and can [illegible]

Interior Cleaning

The ice storage bin should be sanitized occasionally. Clean the bin before the ice maker is used for the first time and reused after stopping for an extended period of time. It is usually convenient to sanitize the bin after the ice making system has been cleaned and the storage bin is empty.

1. Disconnect power to the unit.
2. Open the door and with a clean cloth, wipe down the interior with a sanitizing solution made of 1 ounce of household bleach or chlorine and 2 gallons of warm water (95º to 115ºF).
3. Rinse thoroughly with clear water. The waste water will be drained off through the drainpipe.
4. Reconnect power to the unit.

The ice scoop should be washed regularly. Wash it just like any other food container.

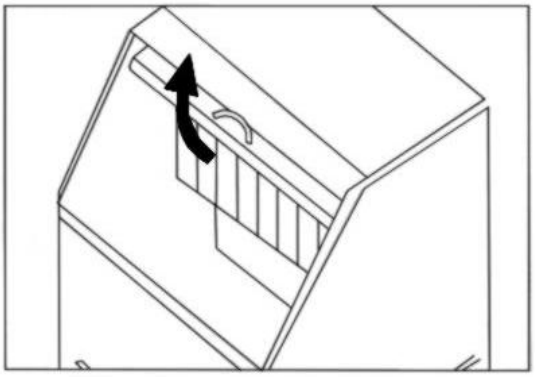
⚠ WARNING

DO NOT use solvent-based cleaning agents or abrasives on the interior. These cleaners may transmit taste to the ice cubes, or damage or discolor the interior.

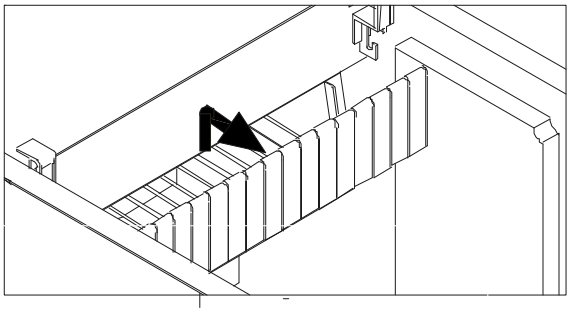
Cleaning the sprinkler:

IMPORTANT NOTE: The sprinkler should only be cleaned when you find that some of the ice cubes are improperly shaped during ice making. Cleaning the ice making system should follow cleaning of the sprinkler.

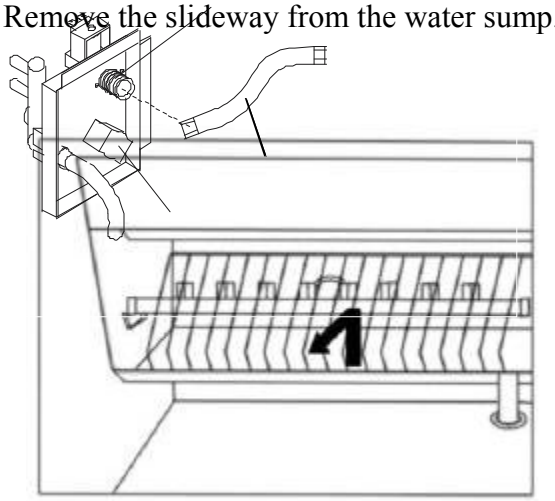
1. Disconnect power to the unit and open the door.



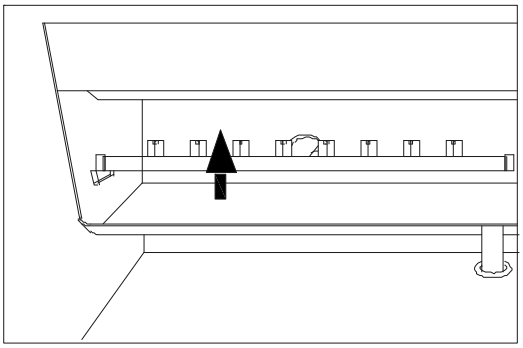
2. Take out the row of flake covers by snapping one end up and pulling forward.

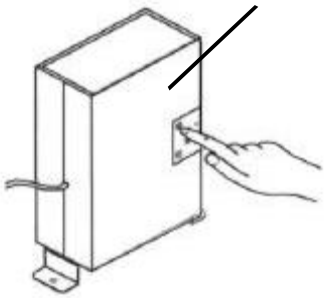


3. Remove the slideway from the water sump.



4. Find the sprinkler arm and raise it. Disconnect it from the water tube which is connected at the back of the sprinkler arm.





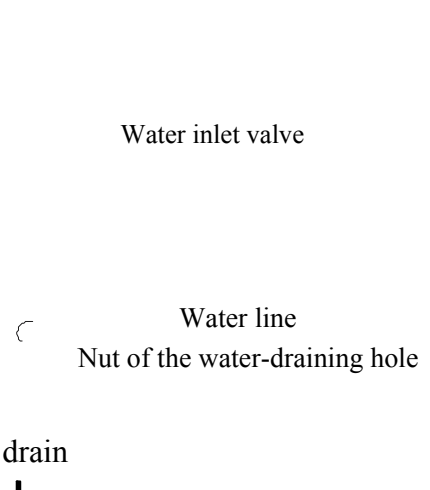
5. A de-scaling solution can be prepared in a plastic basin with Nu-Calgon Nickel-Safe Ice Machine Cleaner. Mix 4 ounces of the ice machine cleaner per gallon of warm water.
   Remove the sprinkler arm from the interior. Thoroughly clean the sprinkler arm by soaking it in the basin filled with the de-scaling solution until it is free of any deposit; use a soft brush to remove any thick or stubborn residue and to help the dissolving action. Rinse under a stream of tap water.

6. Wipe down the interior of the water sump with the de-scaling solution and warm

water. Rinse thoroughly with clear water.

7. Reassemble the sprinkler arm, slideway and row of flake covers.
8. Perform steps 1, 3, 6, 7 and 8 of the *Ice Making System Cleaning* procedure below.

Ice Making System Cleaning

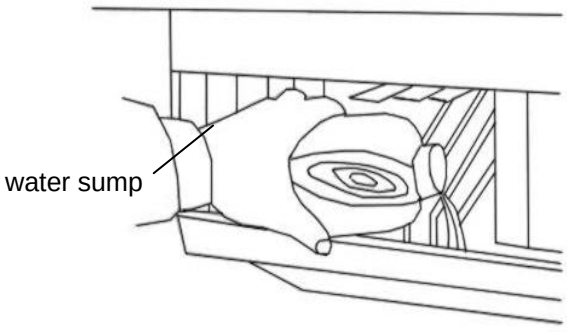


Minerals that are removed from water during the freezing cycle will eventually form a hard scaly deposit in the water system. Cleaning the system regularly helps remove the mineral scale buildup. How often you need to clean the system depends upon how hard your water is or how effective your filtration may be. With hard water of 15 to 20 grains/gal. (4 to 5 grains/liter), you may need to clean the system as often as every 6 months.

1. Turn off power to the ice maker. Keep the ice maker connected to the water supply and drainpipe.
2. Open the door and scoop out all of the ice cubes. Either discard them or save them in an ice chest or cooler.

Control Box

3. Remove the 2 screws in the front cover and push forward to remove the front cover. Locate the control box.
   NOTES: Do not use too much force, as the wire leads connected to the power switch can be inadvertently disconnected.
   Use care in the area of the control box. Do not expose it to moisture.
4. Turn on the power to the ice maker. Pour 8 oz. of Nickel-Safe Ice Machine Cleaner solution into the water sump. Add 8 oz. of tap water. After about 5 minutes, press down the "Clean" button on the Control Box. (See figures here and on page 24.) The machine will run the Automatic Clean Mode.



5. Allow 30 minutes for proper cleaning. After cleaning, shut off the power switch, and unscrew the nut of the water-draining hole on the rear of the unit. Drain off the waste water to some container, and then screw the nut on tightly when the waste water is fully drained off.

⚠ WARNING

The ice machine cleaner contains acids.

DO NOT use or mix with any other solvent-based cleaning products.

Use rubber gloves to protect hands. Carefully read the material safety instructions on the container of the ice machine cleaner.

DISCARD the first batch of ice produced after cleaning.

6. Repeat steps 4 and 5 (without Ice Maker Cleaning Solution) to rinse the ice making system 3 times.
   NOTE: The use of the Ice Maker Cleaner Solution in the water sump during the rinse is not needed.

7. Prepare a sanitizing solution made of 1 ounce of household bleach and 2 gallons of warm water (95º to 115º F). Remove the flake covers and slideway from the water sump and wipe the entire bin inside and out, covering the entire surface of the walls.

8. Fill a spray bottle with the sanitizing solution and spray all corners and edges, making sure to cover all surfaces with the solution. Soak the flake covers and slideway in the solution and put back in place after drying.

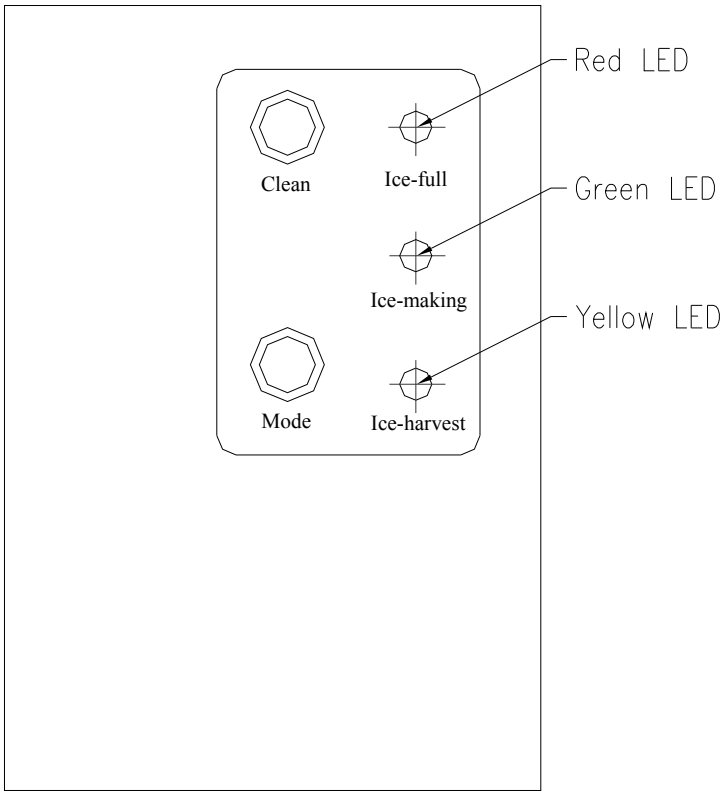
9. Allow the solution to be in contact for at least 3 minutes, then dry.

10. Repeat step 6 to rinse the ice making system one more time.

11. Reassemble the front cover.

12. Turn on the power again. The machine will return to the regular ice making mode. Discard the first batch of ice.

Control Box *(behind front cover)*



Descriptions of LEDs and buttons:

1. **Red LED:** Ice Full indicator light.
   When this LED is lit, the ice storage bin is full of ice or there is something between the two arms of the ice-full sensor in the ice storage bin. The unit will stop working. When ice cubes are taken out of the ice storage bin, clearing the sensor, the red LED will keep flashing for 3 minutes. Then the unit will restart and return to the Ice Making mode.

2. **Green LED:** Ice Making indicator light.
   When this LED is lit, the unit is working in the Ice Making mode controlled by a temperature probe on the evaporator. When the green LED is flashing, the unit is working in the Ice Making mode controlled by a fixed timer.

3. **Yellow LED:** Ice Harvest indicator light.
   When this LED is lit, the unit is working in the Ice Harvest mode controlled by a temperature probe on the evaporator. When the yellow LED is flashing, the unit is working in the Ice Harvest mode controlled by a fixed timer.

4. **Clean button:** When this button is pressed, the unit enters the Cleaning mode. The green and yellow LEDs flash together. To stop the Cleaning mode, just press the button again.

5. **Mode button:** Mainly for service. When this button is pressed, unit can change from Ice Making mode to Ice Harvest mode, or from Ice Harvest mode to Ice Making mode. You can judge the mode from the status of the green and yellow LEDs.

6. **Ice Size Adjustment Guide:**

   a. Press and hold the **Clean** button and the **Mode** button together for at least 3 seconds. The unit will enter the Ice Size Adjustment mode. The **Ice Making** LED (green) will be blinking continuously during the ice size adjustment.

   b. While in the Ice Size Adjustment mode, press the **Clean** button or the **Mode** button for the desired ice size.

   Smaller ice setting:
   By pressing the Clean button, you can decrease the size of the ice cubes. The Ice Full LED (red) will flash as you lower the ice size and will finally be blinking at the setting of smallest ice size.

   Larger ice setting:
   By pressing the Mode button, you can increase the size of the ice cubes. The Ice Harvest LED (yellow) will flash as the larger size is set and will blink when the setting of largest ice size has been reached.

   After 10 seconds without any operation, the unit will automatically memorize the current state and return to the previous mode.

   NOTE: If during the ice size adjustment, the Ice Full, Ice Making and Ice Harvest LEDS blink all at once, this indicates that the unit is in the default factory setting of the ice size adjustment.

7. If the red, green and yellow LEDs are flashing together, the machine is not working. The major fuse of the control box has failed. Call for service.
   NOTE: Avoid letting water contact the control box.

MAJOR FUNCTIONS

1. Completely automatic operating procedure.
2. When the ice storage bin is full of ice cubes, the machine stops working automatically and starts again after the cubes are removed.
3. The different colors of the LED display indicate various work modes.
4. Indication of failure of major control box fuse.
5. The fan motor responds to the ambient temperature. If it is cold, the motor will stop working to keep the cooling system in good working condition.
6. Ice cube size is adjustable.
7. A sensitive probe and accurate timer enhance the performance of the ice maker.
8. Manual Clean mode to start or stop the ice making system cleaning.
9. Built-in compressor protection system.

TROUBLESHOOTING

Before Calling for Service

If the unit appears to be malfunctioning, read through the *Operation* section of this manual first. If the problem persists, check the Troubleshooting Guide below and on the following page. The problem could be something very simple which can be solved without a service call.

Troubleshooting Guide

Problem	Possible Cause	Probable Correction
The machine doesn't operate.	The ice maker is unplugged.	Plug the ice maker in.
	The fuse is blown.	Replace fuse. If it happens again, call for service to check for a short circuit in the ice maker.
	The ice maker power switch is OFF.	Turn the ice maker power switch ON.
	The ice storage bin is full of ice.	Remove some ice; make sure the ice-full sensor is free of ice.
The water doesn't feed in after the ice maker starts.	The water supply tap is turned off.	Turn on the water supply tap.
	The water supply line is not connected properly.	Reconnect the water supply line.
Machine makes ice, but ice storage bin does not fill up with ice.	The bin should fill up and the machine shut off in 9-14 hours. If not, the condenser may be dirty.	Clean the condenser.
	The bin drain may be partially restricted.	Clean out the drain; check the installation.
	The airflow to the ice maker may be obstructed.	Check the installation.
	The ambient temperature and water temperature are high, or machine is near some heat source.	Check the installation.

Problem	Possible Cause	Probable Correction
	A few water drops fall to the floor when you open the	Normal condensation on the door or some water together with ice. Take

LIMITED WARRANTY

PARTS AND LABOR WARRANTY INFORMATION

SUMMIT appliances are manufactured to provide outstanding value, and your satisfaction is our goal on every product. All SUMMIT major appliances carry a one year limited warranty on both parts and labor. All refrigerators and freezers carry an additional four years on the compressor. Certain exclusions may apply.

GENERAL PARTS AND LABOR WARRANTY

SUMMIT warrants, to the original purchaser of every new unit, the cabinet and all parts thereof, to be free from defects in material or workmanship under normal and proper use and maintenance service as specified by SUMMIT and upon proper installation and start-up in accordance with the instruction packet supplied with each SUMMIT unit. SUMMIT's obligation under this warranty is limited to a period of 12 months from the date of original purchase.

Any parts covered under this warranty that are determined by SUMMIT to have been defective within the above said period are limited to the repair or replacement, including labor charges, of defective parts or assemblies. The labor warranty shall include pre-approved standard straight time labor charges only and reasonable travel time, as determined by SUMMIT.

COMPRESSOR WARRANTY

In addition to the warranty period stated above, SUMMIT warrants its hermetically sealed compressor to be free from defects in both material and workmanship, under normal and proper use and maintenance, for a period of 60 months from the date of original purchase. Compressors determined by SUMMIT to have been defective within this extended time period will, at SUMMIT's option, be either repaired or replaced with a compressor or compressor parts of similar design and capacity. The above said extended compressor warranty applies only to hermetically sealed parts of the compressor and DOES NOT apply to any other parts or components, including, but not limited to, cabinet, paint finish, temperature control, refrigerant, metering device, driers, motor starting equipment, fan assembly, or any other electrical component, etc.

WARRANTY CLAIMS

All claims for labor or parts must be made directly through SUMMIT. All claims should include: model number of the unit, the serial number of the cabinet, proof of purchase, date of installation, and all pertinent information supporting the existence of the alleged defect. In case of compressor warranty, the compressor model tag must be returned to SUMMIT along with the above listed information. All claims should be filed within 30 days of completed repair or the warranty claim could be refused.

THINGS NOT COVERED BY THIS WARRANTY

SUMMIT's sole obligation under this warranty is limited to either repair or replacement of parts, subject to the additional limitations below. This warranty neither assumes nor authorizes any person to assume obligations other than those expressly covered by this warranty.

- NO CONSEQUENTIAL DAMAGES: SUMMIT is not responsible for economic loss; profit loss; or special, direct, indirect, or consequential damages, including without limitation, losses or damages arising from food or product spoilage claims whether or not on account of refrigeration failure.
- WARRANTY IS NOT TRANSFERRABLE: This warranty is not assignable and applies only in favor of the original purchaser/user to whom delivered. Any such assignment or transfer shall void the warranties herein made and shall void all warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose.
- IMPROPER USE: SUMMIT assumes no liability for parts or labor coverage for component failure or other damages resulting from improper usage or installation or failure to clean and/or maintain product as set forth in the warranty packet provided with the unit.
- ALTERATION, NEGLECT, ABUSE, MISUSE, ACCIDENT, DAMAGE DURING TRANSIT OR INSTALLATION, FIRE, FLOOD, ACTS OF GOD: SUMMIT is not responsible for the repair or replacement of any parts that SUMMIT determines have been subjected after the date of manufacture to alteration, neglect, abuse, misuse, accident, damage during transit or installation, fire, flood, or act of God.
- IMPROPER ELECTRICAL CONNECTIONS: SUMMIT is not responsible for the repair or replacement of failed or damaged components resulting from electrical power failure, the use of extension cords, low voltage, or voltage drops to the unit.

- NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE: There are no other warranties, expressed, implied or statutory, except the parts & labor warranty and the extended compressor warranty specifically described above. These warranties are exclusive and in lieu of all other warranties, including implied warranty and merchantability or fitness for a particular purpose. There are no other warranties which extend beyond the description on the face hereof.
- OUTSIDE UNITED STATES: This warranty does not apply to, and SUMMIT is not responsible for, any warranty claims made on products sold or used outside the United States.

REQUESTING SERVICE

If you are in need of service, please either fill out a service request on our website

http://www.summitappliance.com/support

or call us at 800-932-4267 or 708-893-3900. Please be prepared to give us the following information: your name, address, phone, email, model, serial number, date of purchase, place of purchase and the problem you are having.

WARNING! This product may contain chemicals known to the state of California to cause cancer or birth defects or other reproductive harm. For more information, visit: www.summitappliance.com/prop65

Chemicals known by the manufacturer to be present in this product in concentrations higher than threshold limits: NONE.

Tested and certified to NSF standard 12 by NSF International
Probado y certificado por NSF International de acuerdo con la norma NSF 12

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